

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/540861	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/08/15 11:28
S2	1	"2002230054"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/08/15 11:42
S3	3	"2002230054"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 13:37
S4	43	@ad<"20021227" and (v-cad or (v adj cad) or vcad)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 14:55
S5	0	@ad<"20021227" and (numerical with analysis with flow with field with (non adj (compressive or compressible)) with fluid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 14:57
S6	0	@ad<"20021227" and (numerical with analysis with flow with field) and ((non adj3 (compressive or compressible)) with fluid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 14:58
S7	5	@ad<"20021227" and (numerical with analysis with flow with field) and ((compressive or compressible) with fluid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:00
S8	10	@ad<"20021227" and (numerical with analysis with flow) and ((compressive or compressible) with fluid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:03

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S9	5	S8 not S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:00
S10	126	@ad<"20021227" and (numerical with analysis with flow) and fluid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:03
S11	41	@ad<"20021227" and (numerical with analysis with flow with fluid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 11:54
S12	3	S11 and ((non adj (compressible or compressive)) or incompressible or incompressive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:11
S13	1	10/834896	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:12
S14	12	10/105138	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:12
S15	2	10/058905	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 15:10
S16	0	"6075538.pn"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 15:10


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MO Deville, PF Fischer, EH Mund - 2002 - books.google.com

... and Constitutive Equations 71.6 Fluid Flow Equations and ... 6.8.3 Unsteady Flow in Arteriovenous Grafts ... of eigenvalues for **second-order diffusion** operator, —u ...[Cited by 127 - Related Articles - Web Search - Library Search](#)[... -factor splitting method for time-dependent problems: Application to incompressible fluid flow - all 6 versions »](#)

Y Maday, AT Patera, EM Rønquist - Journal of Scientific Computing, 1990 - Springer

... in (2.22) with g destroys the **second-order** accuracy of ... The equations governing the time-dependent incompressible flow of a ... The density of the fluid is taken to ...[Cited by 130 - Related Articles - Web Search](#)[A PRESSURE-BASED METHOD FOR UNSTRUCTURED MESHES - all 2 versions »](#)

SR Mathur, JY Murthy - Numerical Heat Transfer, Part B: Fundamentals, 1997 - informaworld.com

... focus of a considerable amount of computational fluid dynamics research ... If acceleration due to gravity r diffusion coefficient If mass flow rate on face f IJ. ...[Cited by 94 - Related Articles - Web Search - BL Direct](#)[... -VOLUME FINITE-ELEMENT METHOD FOR MULTIDIMENSIONAL, INCOMPRESSIBLE, FLUID FLOW-PART I: FORMULATION - all 4 versions »](#)

»

HJ Saabas, BR Baliga - Numerical Heat Transfer, Part B: Fundamentals, 1994 - informaworld.com

... CVFEMs for two-dimensional **incompressible fluid** flows have ... reducing the false diffusion

that afflicts ... pressure distributions in incompressible flow problems [41 ...

[Cited by 40 - Related Articles - Web Search - BL Direct](#)[A Second-order time-accurate finite volume method for unsteady incompressible flow on hybrid ... - all 7 versions »](#)

D Kim, H Choi - Journal of Computational Physics, 2000 - tfc.snu.ac.kr

... a first-order (forward Euler) **pressure**- correction method ... is to develop a new **second-order** time-accurate ... for calculating unsteady incompressible flow on hybrid ...[Cited by 34 - Related Articles - Web Search - BL Direct](#)[CONTROL VOLUME FINITE-ELEMENT METHOD FOR HEAT TRANSFER AND FLUID FLOW USING COLOCATED VARIABLES—1. ... - all 6 versions »](#)

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GE Schneider, MJ Raw - Numerical Heat Transfer, Part A: Applications, 1987 - informaworld.com

... conservation of mass for an **incompressible fluid** in two ... are plagued with excessive false diffusion and consequently ... the effects of the fluid flow physics on the ...

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[Lattice Boltzmann method for fluid flows - all 11 versions »](#)

S Chen, GD Doolen - Annual Review of Fluid Mechanics, 1998 - Annual Reviews
... for viscous Burgers' equation and advection-diffusion system. ... model the macroscopic transport from microscopic fluid dynamics ... P/L, and the volume flow rate per ...

[Cited by 931](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[\(book\) Numerical computation of internal & external flows: fundamentals of numerical discretization - all 2 versions »](#)

C Hirsch - 1988 - John Wiley & Sons, Inc. New York, NY, USA

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[An accurate Cartesian grid method for viscous incompressible flows with complex immersed boundaries - all 10 versions »](#)

T Ye, R Mittal, HS Udaykumar, W Shyy - Journal of Computational Physics, 1999 - student.seas.gwu.edu

... that has been used successfully for diffusion-dominated solidification ... in the so-called volume-of-fluid (VOF) method ... two-way coupling between the flow and the ...

[Cited by 164](#) - [Related Articles](#) - [Web Search](#)

[... theory of semi-implicit projection methods for viscous incompressible flow and its implementation ... - all 4 versions »](#)

PM Gresho - International Journal for Numerical Methods in Fluids, 1990 - doi.wiley.com
... that are carried by the fluid-typically observed as ... recommended to solve steady flow problems-advection ... implicit technique (implicit for diffusion, explicit for ...

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[**SOLA-VOF, A Solution Algorithm for Transient Fluid Flow with Multiple Free Boundaries - all 3 versions »**](#)
BD Nichols, CW Hirt, RS Hotchkiss - 1980 - [osti.gov](#)... two-dimensional transient fluid **flow** with free boundaries.^The SOLA-VOF program, which is based on the concept of a **fractional volume of fluid (VOF)**, is more ...[Cited by 139](#) - [Related Articles](#) - [Cached](#) - [Web Search](#) - [Library Search](#)
[**A level set approach for computing solutions to incompressible two-phase flow - all 7 versions »**](#)
M Sussman, P Smereka, S Osher - [Journal of Computational Physics](#), 1994 - [portal.acm.org](#)... implicit dual time-stepping **VOF** method for ... Lowengrub, A surfactant-conserving **volume-of-fluid** method for ... Modeling three-dimensional multiphase **flow** using a ...[Cited by 784](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#)
[**... analysis of transient fluid flow with free surface using **VOF**\(**volume-of-fluid**\) method and adaptive ... - all 4 versions »**](#)
JH Jeong, DY Yang - [International Journal for Numerical Methods in Fluids](#), 1998 - [doi.wiley.com](#)... [Meth. Fluids](#), 26: 1127±1154 (1998). FINITE ELEMENT ANALYSIS OF TRANSIENT **FLUID FLOW**WITH FREE SURFACE USING **VOF** (**VOLUME-OF-FLUID**) METHOD AND ADAPTIVE GRID ...[Cited by 19](#) - [Related Articles](#) - [Web Search](#)
[**Numerical simulation of breakup of a viscous drop in simple shear **flow** through a **volume-of-fluid** ... - all 5 versions »**](#)
J Li - [Physics of Fluids](#), 2000 - [math.vt.edu](#)... between parallel plates. The subsequent **flow** is investigated numerically with a **volume-of-fluid** **VOF** method. The scheme incorporates ...[Cited by 59](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)
[**Volume-of-fluid interface tracking with smoothed surface stress methods for three-dimensional flows - all 7 versions »**](#)
D Gueyffier, J Li, A Nadim, R Scardovelli, S ... - [Journal of Computational Physics](#), 1999 - [math.vt.edu](#)... An advantage of both **VOF** and level-set methods ... when they are stretched by the **flow**, and no ... uncontrolled reconnection that one gets with **volume-of-fluid** or level ...[Cited by 154](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
[**Direct numerical simulation of free-surface and interfacial **flow** - all 5 versions »**](#)

»

R Scardovelli, S Zaleski - [Annual Review of Fluid Mechanics](#), 1999 - [Annual Reviews](#)... In an incompressible **flow**, mass conservation is equivalent to ... Figure 10 The exact **volume-of-fluid** color function for a ... **VOF** methods have been known for several ...[Cited by 315](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
[**A hybrid finite-element-**volume-of-fluid** method for simulating free surface**](#)

flows and interfaces

F MASHAYEK, N ASHGRIZ - International journal for numerical methods in fluids, 1995 - cat.inist.fr

... boundary and the versatility of the **volume-of-fluid**(VOF) technique in ... The advantage of the VOF technique is that it ... is that in solving the flow equations, it ...

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VOLUME-TRACKING METHODS FOR INTERFACIAL FLOWCALCULATIONS - all 5 versions »

M RUDMAN - International Journal for Numerical Methods in Fluids, 1997 - doi.wiley.com

... above a reference level is calculated offers a simple and robust method for simulating interfacial flow in both ... 9 the **volume of fluid** (VOF) method due to Hirt ...

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Mathematical Modeling of Fluid Flow in Continuous Casting - all 7 versions »

BG Thomas, L Zhang - ISIJ International, 2001 - ccc.me.uiuc.edu

... Wang et al studied the influence of wettability on the behavior of argon bubbles and fluid flow. ... Mathematical Modeling of Fluid Flow in Continuous Casting ...

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Y Renardy, M Renardy - Journal of Computational Physics, 2002 - mathnet.kaist.ac.kr

... **Volume-of-fluid** (VOF) methods are popular for the direct numerical simulation of time-dependent viscous incompressible flow of multiple liquids. ...

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[Predictions of metal droplet formation in arc welding - all 7 versions »](#)

J HAIDAR, JJ LOWKE - Journal of Physics D: Applied Physics, 1996 - iop.org

 ... using the fractional '**volume of fluid**' (VOF) technique [12,13]. Input parameters required for the code are simply the arc current, gas flow rate, wire feed ...

[Cited by 41 - Related Articles - Web Search - BL Direct](#)
[An investigation of **flow** characteristics considering the effect of viscosity variation in the ... - all 3 versions »](#)

NS Kim, CG Kang - Journal of Materials Processing Tech., 2000 - Elsevier

 ... simulation of mold filling are SOLA-VOF (Solution Algorithm-Volume of Fluid), MAC (Marker ... no significant influence on the predicted **flow** patterns if ...

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[COMPUTATION OF FREE-SURFACE FLOWS USING THE FINITE-VOLUME METHOD AND MOVING GRIDS - all 2 versions »](#)

S Muzaferija, M Peri'c - Numerical Heat Transfer, Part B: Fundamentals, 1997 - informaworld.com

 ... satisfied and is thus suitable for unsteady- as well as steady-**flow** problems. ... 1.

 CW Hirt and BD Nichols, **Volume of Fluid (VOF)** Method for the Dynamics of Free ...

[Cited by 14 - Related Articles - Web Search - BL Direct](#)
[The constrained interpolation profile method for multiphase analysis - all 7 versions »](#)

T Yabe, F Xiao, T Utsumi - Journal of Computational Physics, 2001 - mech.titech.ac.jp

 ... This method is a kind of semi-Lagrangian scheme and has been extended to treat incompressible **flow** in the framework of compressible fluid. ...

[Cited by 139 - Related Articles - Web Search - BL Direct](#)
[A volume-tracking method for incompressible multifluid flows with large density variations - all 6 versions »](#)

M Rudman - International Journal for Numerical Methods in Fluids, 1998 - doi.wiley.com

 ... methods can be difficult to adapt to general interfacial **flow** simulations, primarily ... multifluid case have been developed, for example the SOLA-VOF algorithm of ...

[Cited by 73 - Related Articles - Web Search - BL Direct](#)
[Temporal evolution of periodic disturbances in two-layer Couette **flow** - all 8 versions »](#)

AV Coward, YY Renardy, M Renardy, JR Richards - Journal of Computational Physics, 1997 - math.vt.edu

 ... motivation for studying two-layer Couette **flow** front tracking [6-9] and volume tracking methods [10-12] which include the **volume of fluid** scheme. The VOF ...

[Cited by 28 - Related Articles - Web Search - BL Direct](#)
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B Koren, MR Lewis, EH van Brummelen, B van Leer - Journal of Computational Physics, 2002 - cwi.nl

... 2. **FLOW MODEL** ... accurately resolve the interface location(s), a level-set approach [16] is more appropriate than the classical **volume-of-fluid (VOF)** approach [8 ...
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[book] [Level set methods and fast marching methods - all 7 versions »](#)
JA Sethian - 1999 - math.berkeley.edu

Page 1. Level Set Methods and Fast Marching Methods Evolving Interfaces in Computational Geometry, Fluid Mechanics, Computer Vision, and Materials Science ...
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[Analysis of flow between a wafer and pad during CMP processes - all 8 versions »](#)

C Rogers, J Coppeta, L Racz, A Philipossian, FB ... - Journal of Electronic Materials, 1998 - Springer

... the free surface of the slurry in front of the wafer (bow wave) is of interest, we used Fluent's **volume of fluid (VOF)** solver 9 to solve the **flow** of both air ...

Cited by 16 - Related Articles - Web Search - BL Direct

[A five-equation model for the simulation of interfaces between compressible fluids - all 5 versions »](#)

G Allaire, S Clerc, S Kokh - Journal of Computational Physics, 2002 - portal.acm.org
... Nichols, **Volume of fluid (VOF)** method for the dynamics of free boundaries, J. Comput. Phys. 39, 201 (1981). 11 Smadar Karni, Multicomponent **flow** calculations by ...

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T Yabe, F Xiao, T Utsumi - Journal of Computational Physics, 2001 - mech.titech.ac.jp

... a review of the constrained interpolation profile (CIP) ... been extended to treat incompressible flow in the ... other hand, incompressible schemes like QUICK or higher ...

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[A particle-gridless hybrid method for incompressible flows - all 4 versions »](#)

HY Yoon, S Koshizuka, Y Oka - International Journal for Numerical Methods in Fluids, 1999 - doi.wiley.com

 ... and the **volume of fluid** method (VOF) [14], the ... of the markers and the **volume of fluid** in each ... Considering the **flow** direction of each computing point (particle ...

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[Unstructured finite volume procedure for simulating flows with moving fronts - all 4 versions »](#)

CR Maliska, JFV de Vasconcellos - Computer Methods in Applied Mechanics and Engineering, 2000 - Elsevier

 ... [3], the **volume of fluid** (VOF) technique of ... and the formulation allows the capture of the fountain **flow**. ... In the original VOF method the following equation is ...

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[Computational fluid dynamics and the physical modelling of an upland urban river - all 6 versions »](#)

 L Ma, PJ Ashworth, JL Best, L Elliott, DB Ingham, ... - Geomorphology, 2002 - Elsevier
 ... Therefore, in this paper, the **Volume of Fluid** Technique (VOF) ... When the VOF technique

 is activated, the air ... to solve the governing fluid **flow** equations numerically ...

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T Iwasaki, K Nishimura, M Tanaka, Y Hagiwara - International Journal of Heat and Fluid Flow, 2001 - Elsevier

 ... In this paper, the modified **volume of fluid** (VOF) algorithm and ... the transverse direction to the **flow**, respectively ... finite-differencing of the **convection** and the ...

 Cited by 4 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
[A front-tracking method for the computations of multiphase **flow** - all 9 versions »](#)

G Tryggvason, B Bunner, A Esmaeeli, N Al-Rawahi, W ... - Journal of Computational Physics, 2001 - vu.union.edu

 ... identify each fluid, and the **volume- of-fluid** (VOF) method, where ... Later implementations,

 including the VOF method, used first ... on fully resolving the **flow** and we ...

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[A volume-tracking method for incompressible multifluid flows with large density variations - all 6 versions »](#)

M Rudman - International Journal for Numerical Methods in Fluids, 1998 - doi.wiley.com
... to adapt to general interfacial flow simulations, primarily ... developed, for example the SOLA-VOF algorithm of ... velocity u , piecewise linear interpolation of the ...

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[The capturing of free surfaces in incompressible multi-fluid flows - all 4 versions »](#)

D Pan, CH Chang - International Journal for Numerical Methods in Fluids, 2000 - doi.wiley.com
... surface is of practical importance in problems such as the thermocapillary convection in crystal growth, the liquid sloshing in tanks and the flow and heat ...

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[Efficient solving method for unsteady incompressible interfacial flow problems - all 4 versions »](#)

S Vincent, JP Caltagirone - International Journal for Numerical Methods in Fluids, 1999 - doi.wiley.com
... the interface with Cartesian grids is the **volume of fluid (VOF)** method (see ... To avoid the drawbacks of the marker and VOF methods, we ... UNSTEADY INTERFACIAL FLOW ...

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[A volume-of-fluid computational technique for free surface flow problems/JF McKibben and CK Aidun. - all 4 versions »](#)

JF McKibben, CK Aidun - 1993 - smartech.gatech.edu
... include those used in the **volume of fluid (VOF)** family of ... greatly extend the applicability of the VOF method to ... and solution of the potential flow equations in ...

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 g destroys the second-order accuracy of ... 3. APPLICATION TO INCOMPRESSIBLE
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 ... consider a semi-implicit scheme such as a second-order Adams-Bashforth method [1 ...
 have been successfully applied to a variety of incompressible flow problems. ...

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... projection scheme applied to pseudospectral methods for the incompressible Navier-Stokes equations - all 4 versions »

S Hugues, A Randriamampianina - International Journal for Numerical Methods in Fluids, 1998 - [doi.wiley.com](#)

... methods associated with second-order Crank-Nicolson ... of the unsteady regularized driven cavity flow. ... on an algorithm named 'projection-diffusion', in which ...

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von Neumann stability conditions for the convection-diffusion equation - all 7 versions »

P WESSELING - IMA Journal of Numerical Analysis, 1996 - [imajna.oxfordjournals.org](#)
 ... implicit-explicit (IMEX: diffusion implicit, convection ... of the second-order
 Adams-Bashforth scheme (—) with ... time-dependent incompressible flow computations.

...
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PM Gresho - International Journal for Numerical Methods in Fluids, 1990 - [doi.wiley.com](#)
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... in the so-called volume-of-fluid (VOF) method ... $v(x, t)$ on the boundary of the flow
 domain where ... $n + 1$ through an intermediate advection-diffusion step where ...

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[A model for the simulation of turbulent boundary layers in an **incompressible** stratified flow - all 7 versions »](#)

DN Slinn, JJ Riley - Journal of Computational Physics, 1998 - coastal.ufl.edu

... Considering forced, dissipative, **incompressible** flow within the Boussinesq ... Here
"u is the **fluid** velocity, g is ... k are coefficients of diffusion of momentum ...

[Cited by 25 - Related Articles - Web Search - BL Direct](#)

[... volume multigrid method to three-dimensional **flow** problems in a highly viscous **fluid** with a variable ... - all 3 versions »](#)

RA Trompert, U Hansen - Geophysical & Astrophysical **Fluid** Dynamics, 1996 - informaworld.com

... in an infinite-Prandtl-number Bous- sinesq **fluid** in a ... have chosen an implicit treatment of the **diffusion** term in ... of the energy equation from the **flow** equations ...

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UM Ascher, SJ Ruuth, BTR Wetton - SIAM Journal on Numerical Analysis, 1995 - JSTOR
... 1 (0,1) (~, ~ 1,0) **Second-order** method (3 ... T. TAYLOR, Computational Methods for **Fluid**

Flow, Springer-Verlag ... explicit methods for reaction-diffusion problems, J ...

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[... of semi-implicit and semi-Lagrangian spectral methods for the calculation of **incompressible** flows - all 5 versions »](#)

C Xu, R Pasquetti - International Journal for Numerical Methods in Fluids, 2001 - doi.wiley.com

... In spectral simulations of **incompressible** viscous flows, the linear ... then scheme (5) for the **diffusion** problem would be ... 1 2 v (m-1) · 9u⁻ m-1 **Second-order** ...

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